

## **AMENDMENTS TO THE SPECIFICATION**

Please revise the specification as follows:

Please amend the paragraph on page 4, line 23 as shown below:

In another embodiment, said method comprises detecting the presence or absence of a mutation associated with impaired replication capacity at at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 or 12 amino acid positions. In general, the methods can comprise detecting the presence or absence of any combinations of mutations listed herein associated with impaired replication capacity. For example, the method can comprise detecting the presence or absence of a mutation at at least two amino acid positions, such as amino acid positions 106 and 181, 103 and 190, 103 and 236, 181 and 236, 103 and 188, 103 and 181, 100 and 103, or 98 and 181. In certain embodiments, such methods can comprise detecting the presence or absence of V106A and Y181C; K103N and ~~G109S~~ G190S; P236L and K103N; P236L and Y181C; K103N and G190A; K103N and Y181C; K103N and Y188L; L100I and K103N; or Y181C and A98G.

Please amend the paragraph on page 28, line 19, as shown below:

### **6.2 Example 2: Measuring Replication Fitness of Viruses ~~with Deficiencies~~ with Deficiencies in RT Activity**